

**IN THE CLAIMS:**

1 1. (Original): A method for detecting leaked buffer writes between a first consistency  
2 point and a second consistency point, the method comprising:  
3 receiving a write operation directed to a file;  
4 creating a data buffer associated with the write operation; and  
5 writing a buffer check control structure to a raw data buffer associated with the  
6 data buffer.

1 2. (Currently Amended): The method of claim 1 wherein the step of creating the data  
2 buffer further comprises the step of creating a the buffer check control structure and a the  
3 raw data buffer.

1 3. (Currently Amended): The method of claim 2 wherein the buffer check control struc-  
2 ture comprises a pointer to the raw data buffer.

1 4. (Original): The method of claim 1 wherein the step of writing the buffer check control  
2 structure to the raw data buffer further comprises the steps of:  
3 creating the buffer check control structure; and  
4 overwriting a portion of the raw data buffer with the buffer check control struc-  
5 ture.

1 5. (Original): The method of claim 1 wherein the step of writing the buffer check control  
2 structure to the raw data buffer further comprises the steps of:  
3 creating the buffer check control structure; and  
4 associating the buffer check control structure to the raw data buffer in a contigu-  
5 ous block of memory.

1 6. (Original): The method of claim 4 wherein the buffer check control structure com-  
2 prises:

3 one or more magic numbers; and  
4 a consistency point number.

1 7. (Original): The method of claim 6 wherein the one or more magic number comprises  
2 a 64-bit value.

1 8. (Original): The method of claim 6 wherein one or more magic number values com-  
2 prises two 32-bit values.

1 9. (Original): The method of claim 6 wherein the consistency point number identifies a  
2 current consistency point.

1 10. (Original): The method of claim 6 wherein the consistency point number comprises  
2 a 32-bit value.

1 11. (Currently Amended): A method for detecting leaked buffer writes between a first  
2 consistency point and a second consistency point, the method comprising steps of:  
3 selecting a data buffer;  
4 determining if the selected data buffer includes a buffer check control structure;  
5 determining, in response to the selected data buffer including a buffer check con-  
6 trol structure, if a consistency point number within the buffer check control structure is  
7 correct; and  
8 performing, in response to determining that the consistency point number within  
9 the buffer check control structure is correct, a write operation of the a file system buffer.

- 1 12. (Original): The method of claim 11 wherein the step of determining if the data  
2 buffer comprises a buffer check control structure further comprises a step of determining  
3 if one or more magic values are within the data buffer.
- 1 13. (Original): The method of claim 12 wherein one or more magic values comprise a  
2 64-bit magic number.
- 1 14. (Original): The method of claim 12 wherein one or more magic values further com-  
2 prises two 32-bit magic numbers.
- 1 15. (Original): The method of claim 11 wherein the step of determining if the consis-  
2 tency point number is correct further comprises the step of determining if the consistency  
3 point number within the buffer check control structure equals a consistency point number  
4 identifying a current consistency point.
- 1 16. (Original): The method of claim 11 wherein the step of performing a write operation  
2 further comprises a step of writing a set of raw data within the data buffer to disk.
- 1 17. (Original): The method of claim 16 wherein the raw data comprises the buffer check  
2 control structure.
- 1 18. (Currently Amended): The method of claim 16 wherein the step of performing the  
2 write operation further comprises a step of removing the buffer check control structure  
3 from the raw data before writing the file system buffer to disk.
- 1 19. (Original): The method of claim 16 wherein the step of performing the write opera-  
2 tion comprises the step of writing only the raw data within the file system buffer to disk.

- 1 20. (Currently Amended): A system for detecting leaked buffer writes between a first  
2 consistency point and a second consistency point, the system comprising:  
3 means for receiving write operations;  
4 means for creating a data buffer associated with the write operations file; and  
5 means for writing a buffer check control structure to a raw data buffer associated  
6 with the data buffer.

Please add new claims 21, et seq. as follows:

- 1   21. (New): A computer readable media, comprising:  
2       the computer readable media containing instructions for execution on a processor  
3   for the practice of a method of detecting leaked buffer writes between a first consistency  
4   point and a second consistency point, the method having the steps of, receiving a write  
5   operation directed to a file;  
6       creating a data buffer associated with the write operation; and  
7       writing a buffer check control structure to a raw data buffer associated with the  
8   data buffer.
- 1   22. (New): An apparatus configured to detect leaked buffer writes between a first consis-  
2   tency point and a second consistency point, the apparatus comprising:  
3       a storage system to receive write operations;  
4       a data buffer created to associate with the write operations; and  
5       a buffer check control structure to write to a raw data buffer associated with the  
6   data buffer.
- 1   23. (New): The apparatus of claim 22 wherein the data buffer created to associate with  
2   the write operations comprises the buffer check control structure and the raw data buffer.
- 1   24. (New): The apparatus of claim 23 wherein the buffer check control structure com-  
2   prises a pointer to the raw data buffer.
- 1   25. (New): The apparatus of claim 22 wherein the buffer check control structure to write  
2   to a raw data buffer associated with the data buffer further comprises the buffer check  
3   control structure to overwrite a portion of the raw data buffer.

1 26. (New): The apparatus of claim 22 wherein the buffer check control structure to write  
2 to the raw data buffer further comprises the buffer check control structure to associate  
3 with the raw data buffer in a contiguous block of memory.

1 27. (New): The apparatus of claim 26 wherein the buffer check control structure com-  
2 prises:  
3 one or more magic numbers; and  
4 a consistency point number.

1 28. (New): The apparatus of claim 27 wherein the one or more magic number comprises  
2 a 64-bit value.

1 29. (New): The apparatus of claim 27 wherein one or more magic number values com-  
2 prises two 32-bit values.

1 30. (New): The apparatus of claim 27 wherein the consistency point number is config-  
2 ured to identify a current consistency point.

1 31. (New): The system of claim 27 wherein the consistency point number comprises a  
2 32-bit value.